



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
09.12.1998 Bulletin 1998/50

(51) Int. Cl.⁶: **G06F 17/30**

(43) Date of publication A2:
12.11.1997 Bulletin 1997/46

(21) Application number: **97100673.9**

(22) Date of filing: **17.01.1997**

(84) Designated Contracting States:
DE FR GB NL SE

• **Sporkert, Tilman**
San Jose, California 95131 (US)

(30) Priority: **18.01.1996 US 588142**

(74) Representative:
Kahler, Kurt, Dipl.-Ing.
Patentanwälte
Kahler, Käck, Flöner et col.,
Vorderer Anger 268
86899 Landsberg/Lech (DE)

(71) Applicant:
SUN MICROSYSTEMS, INC.
Mountain View, California 94043-1100 (US)

(72) Inventors:
 • **Bracho, Rafael**
Cupertino, California 95014 (US)

(54) **Database network**

(57) A method and apparatus for publishing and receiving events to a network (120). A plurality of "publisher" entities publish information and a plurality of "subscriber" entities request and use the information. Publishers (102, 110, 116) and subscribers (104, 112, 118) are connected to each other through a network (120). The network (120) is a "store and forward" network whose routing is "content-based." The basic quanta of information is called an "event." Publishers (102, 110, 116) publish events and subscribers (104, 112, 118) subscribe to events that match criteria defined by the subscriber (104, 112, 118). Publication

and subscription are performed asynchronously. Publishers (102, 110, 116) and subscribers (104, 112, 118) do not have direct knowledge of each other. The system (100) receives a published event from a publisher (102, 110, 116) and routes the event to all appropriate subscribers (104, 112, 118). Each subscriber (104, 112, 118) is guaranteed to receive all events published on the system (100) if, and only if, they match the subscription criteria specified by the subscriber. A legacy data base can be added to the network by way of a data base connector, which can be a publisher, a subscriber, or both.

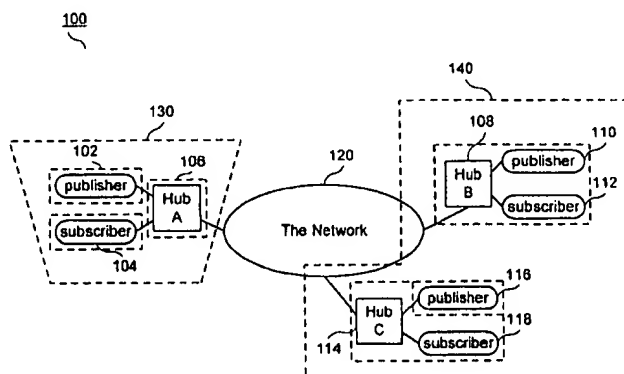


FIG. 1



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 97 10 0673

DOCUMENTS CONSIDERED TO BE RELEVANT					
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)		
A	EP 0 213 276 A (IBM) 11 March 1987 * column 4, line 1 - column 15, line 36; figures 13,14,17,18 * ---	1,3	G06F17/30		
A	PATENT ABSTRACTS OF JAPAN vol. 018, no. 489 (P-1799), 12 September 1994 & JP 06 161862 A (OKI ELECTRIC IND CO LTD), 10 June 1994 * abstract * ---	1,3			
A	US 4 745 559 A (WILLIS RICHARD A ET AL) 17 May 1988 * column 4, line 39 - column 6, line 6; figure 1 * ---	1,3			
A	EP 0 593 062 A (SIEMENS IND AUTOMATION INC) 20 April 1994 * column 2, line 43 - column 3, line 49; figure 1 * ---	1,3			
A	EP 0 258 867 A (WANG LABORATORIES) 9 March 1988 * column 2, line 12 - column 5, line 4; figure 1 * -----	1,3	<table border="1"> <thead> <tr> <th>TECHNICAL FIELDS SEARCHED (Int.Cl.6)</th> </tr> </thead> <tbody> <tr> <td>G06F</td> </tr> </tbody> </table>	TECHNICAL FIELDS SEARCHED (Int.Cl.6)	G06F
TECHNICAL FIELDS SEARCHED (Int.Cl.6)					
G06F					
The present search report has been drawn up for all claims					
Place of search BERLIN		Date of completion of the search 21 October 1998	Examiner Deane, E		
<table border="0"> <tr> <td style="vertical-align: top;"> CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document </td> <td style="vertical-align: top;"> T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document </td> </tr> </table>				CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document	T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document	T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document				

EPO FORM 1503 03/82 (P4/C01)